

Title (en)

INJECTION UNIT WITH A ROTATING VALVE FOR PROCESSING MELTABLE MATERIALS

Title (de)

SPRITZEINHEIT MIT ROTIERENDEM VENTIL ZUR VERARBEITUNG SCHMELZBARER MATERIALIEN

Title (fr)

UNITE D'INJECTION A SOUPAPE ROTATIVE POUR TRAITER DES MATIERES FUSIBLES

Publication

EP 1594669 A1 20051116 (DE)

Application

EP 04705804 A 20040128

Priority

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- DE 10307616 A 20030222

Abstract (en)

[origin: US2006134253A1] The invention is based on an injection unit for the processing of fusible materials, for example thermoplastics, ceramic or metallic compositions or the like, in which at least two melt streams are fed via a channel system to one or more mould cavities in a sequence which changes with time. In accordance with the invention, only one rotating valve element is provided for each channel system which leads to the mould cavity (cavities) and consists of at least two feed channels (6; 7). The valve element consists of a hollow spindle (11), which is connected to the pressure channel (20) of the melt and has, in the plane of the feed channels (6; 7) leading to the mould cavity (cavities), at least one distribution channel (21) which runs radially outwards and is likewise connected to the pressure channel (20).

IPC 1-7

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IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

See references of WO 2004073950A1

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US 2006134253 A1 20060622; AT E431775 T1 20090615; BR PI0407716 A 20060214; CN 1753770 A 20060329; CZ 2005602 A3 20051214; DE 10307616 A1 20040902; DE 502004009505 D1 20090702; EP 1594669 A1 20051116; EP 1594669 B1 20090520; JP 2006520702 A 20060914; KR 20050103501 A 20051031; TW 200418627 A 20041001; WO 2004073950 A1 20040902

DOCDB simple family (application)

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